	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	AAAAAAA	2222222222	EEEEEEEEEEEEE
	RARRARRARRA	AAAAAAA	2222222222	EEEEEEEEEEEE
III	RRR RRR	AAA AAA	ÇÇÇ	EEE
III	RRR RRR	AAA AAA	CCC	EEE
III	RRR RRR	AAA AAA	CCC	EEE
TTT	RRR RRR	AAA AAA	CCC	EEE
TTT	RRR RRR	AAA AAA	CCC	EEE
TTT	RRR RRR	AAA AAA	CCC	EEE
TTT	RRRRRRRRRRRRR	AAA AAA	CCC	EEEEEEEEEE
TIT	RRRRRRRRRRR	AAA AAA	ČČČ	EEEEEEEEEE
TIT	RRRRRRRRRRR	AAA AAA	ČČČ	EEEEEEEEEE
111	RRR RRR	AAAAAAAAAAAA	ČČČ	EEE
111	RRR RRR	AAAAAAAAAAAA	ČČČ	ĒĒĒ
TTT	RRR RRR	AAAAAAAAAAAA	ČČČ	ĒĒĒ
fff	RRR RRR	AAA AAA	ČČČ	EEE
tit	RRR RRR	AAA AAA	ŠŠŠ	EEE
ttt	RRR RRR	AAA AAA	ČČČ	ĒĒĒ
iii	RRR RRR	AAA AAA	222222222	EEEEEEEEEEEE
iii	RRR RRR	AAA AAA	2222222222	EEEEEEEEEEEE
iii	RRR RRR	AAA AAA	2222222222	EEEEEEEEEEEE

...

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1

2222222

2222222

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRPRR RRRRRRRR	
RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	QQQQQQ QQQQQQ QQQQQQ QQQQQQQ QQQQQQQQ QQQQ	

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TBK

STRUCDEF -- DECLARATION FILE FOR DATA STRUCTURE DEFINITION AND ACCESS MACROS USED IN THE VAX DEBUGGER

Version:

'V04-000'

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WRITTEN BY Bert Beander August, 1981.

MODULE FUNCTION:

This REQUIRE file contains all macros used in defining and accessing data structures (BLISS BLOCKs) in the VAX Debugger. These symbolic names should always be used in BLISS Field-References.

TBK

DATA STRUCTURE DEFINITION AND ACCESS

The following macros must be used in defining field names for all data structures in the Debugger. These macros supply the position, size, and sign-extension values when used in FIELD declarations for BLOCK and BLOCKVECTOR data structures. The various generic forms (as specified by the letters in the names) are as follows:

A Materialized address
L Longword
W Zero-extended word
B Zero-extended byte
V Zero-extended bit field
SW Sign-extended word
SB Sign-extended byte
SV Sign-extended bit field

The "A" form should be used whenever the field being defined is such that only the address of the field may be materialized in a structure reference; that is, fetch and store operations on the field are not valid. An example of such a field is an ASCII string.

Each of the 'V' and 'SV' forms take one or two parameters. The first parameter is the bit position within the longword (or byte) and the second is the field size in bits. The second parameter is optional; if omitted, it defaults to 1. Thus V_(5) means bit 5 while V_(5,3) means the 3-bit field starting at bit 5 and ending at bit 7. Bit positions are counted from the low-order (least significant) end of the longword, starting at zero.

The following data structure picture shows the locations of the various fields that can be specified. Note how the bit positions are numbered along the top of the illustration.

0	1			
1	W	1_		10_
2	B3_	B2_	B1_	B0_

MACRO

 $A_{\perp} = 0, 0, 0 %$. ! Address of a longword

A0_ = 0, 0, 0 %, ! Address of byte 0 A1_ = 8, 0, 0 %; ! Address of byte 1

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TBI
```

```
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         = 16, 0, 0 %;
                                       ! Address of byte 2
! Address of byte 3
A2-
             0, 32,
0, 16,
0, 8,
                                         Longword
Word, zero-extended
                                       ! Byte, zero-extended
         = 0, 16,
                                       ! Word 0 zero-extended ! Word 1 zero-extended
B0_
B1_
B2_
B3_
                  80000
                                         Byte 0 zero-extended
Byte 1 zero-extended
Byte 2 zero-extended
Byte 3 zero-extended
             8.
                       0000
          =
         = 16.
V_(P,S) = P, %IF %NULL(S) %THEN 1 %ELSE S %FI, 0 %, ! Unsigned bit field
= 0, 16, 1 %;
= 0, 8, 1 %;
                                       Word, sign-extended Byte, sign-extended
SW_
SB_
SWO_
SW1_
                                       ! Word 0 sign-extended ! Word 1 sign-extended
SBO_
SB1_
SB2_
SB3_
                                         Byte 0 sign-extended
Byte 1 sign-extended
Byte 2 sign-extended
Byte 3 sign-extended
             8.
          =
         = 16.
SV_(P,S)= P, %IF %NULL(S) %THEN 1 %ELSE S %FI, 1 %, ! Signed bit field
```

END OF STRUCDEF.REQ

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